

Appendix B

RF Test Data for BT V4.1(BT LE) (Conducted Measurement)

Product Name: Legends Ultimate Home Arcade

Trade Mark: N/A

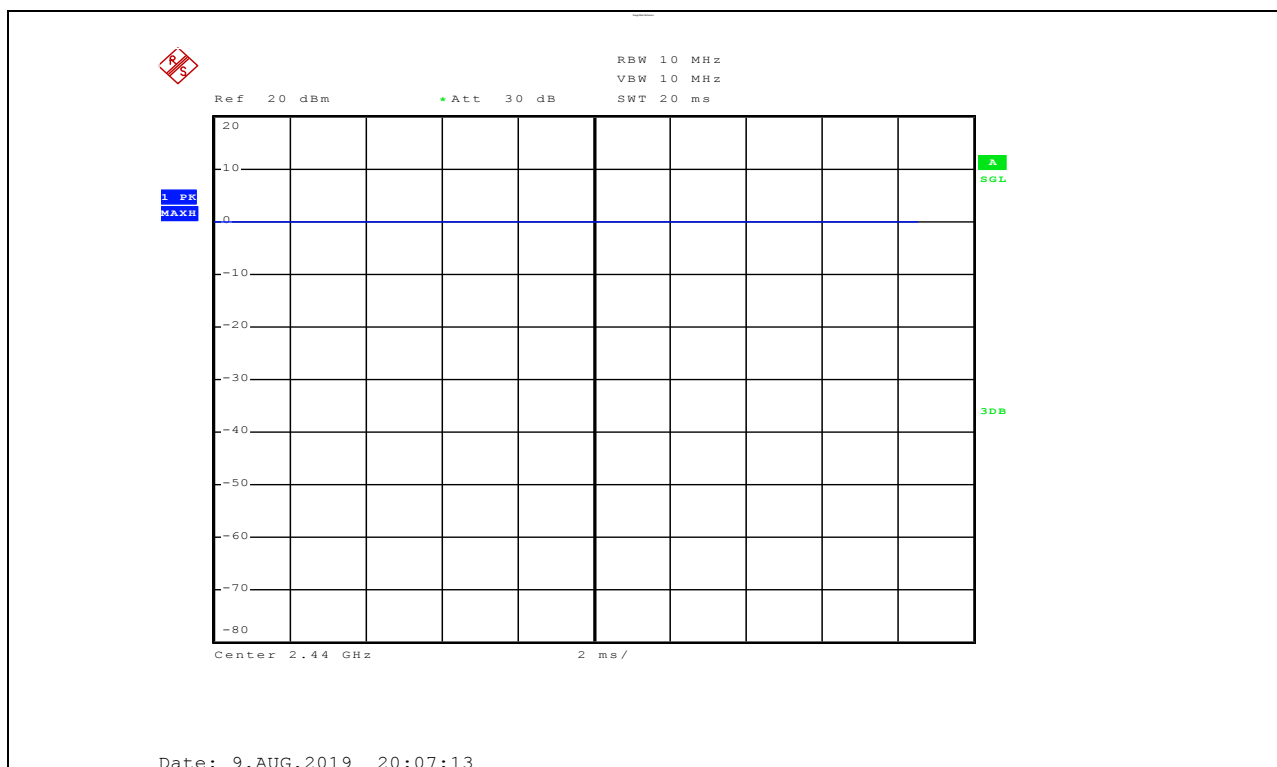
Test Model: HA8800

Environmental Conditions

Temperature:	24.3 ° C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	JK ZHOU
Supervised by:	Wang Chuang

B.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS

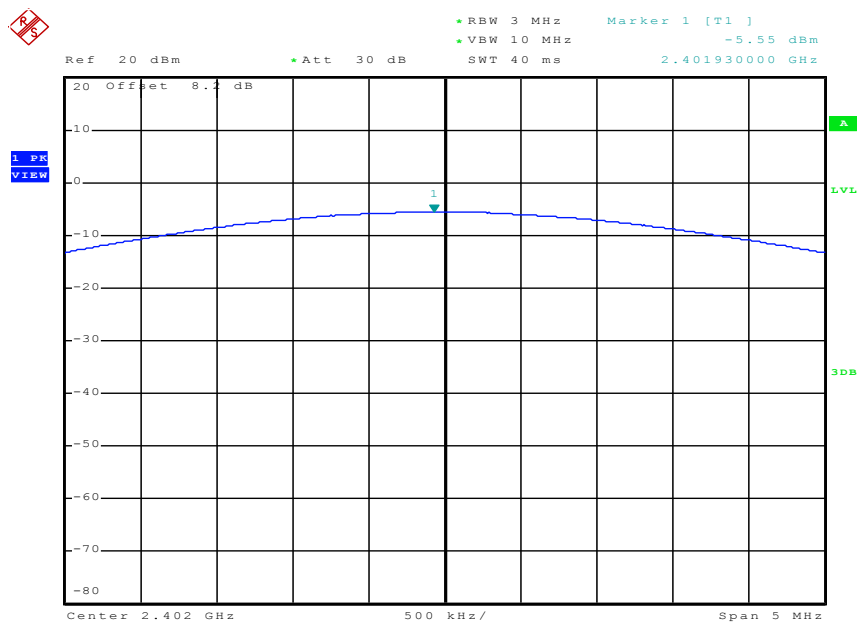


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-5.55	30	PASS
BT LE	MCH	-4.72	30	PASS
BT LE	HCH	-5.97	30	PASS

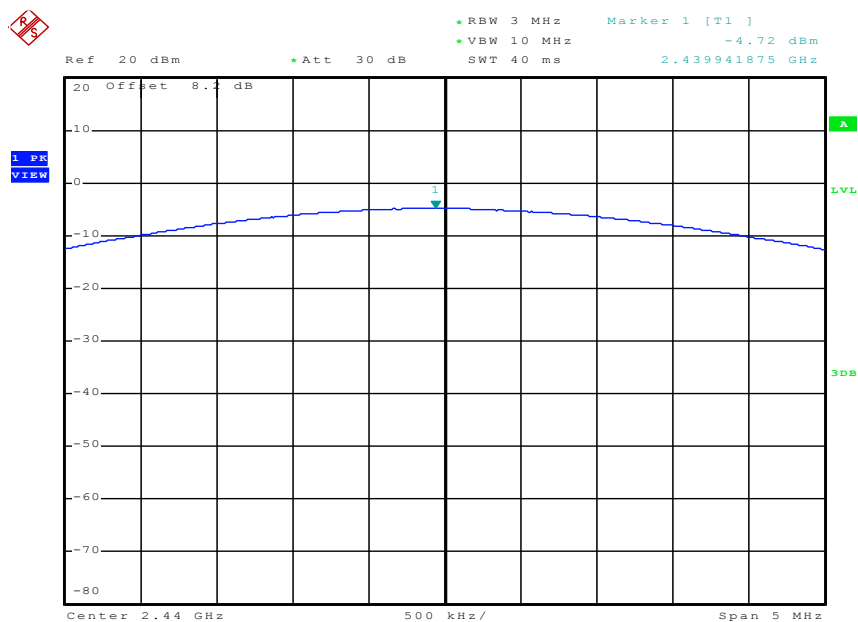
Test Graphs

LCH



Date: 9 AUG 2019 19:59:31

MCH

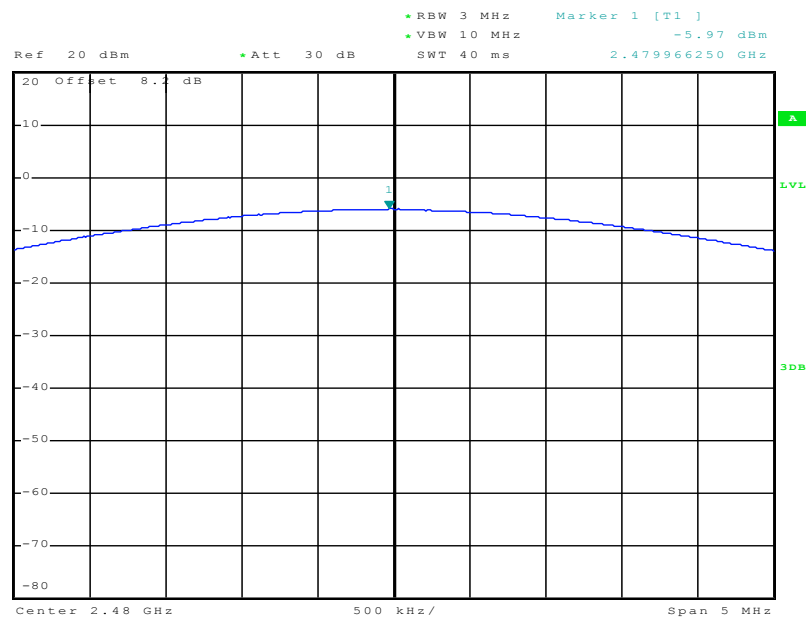


Date: 9 AUG 2019 20:02:49

HCH



1 PR
VIEW



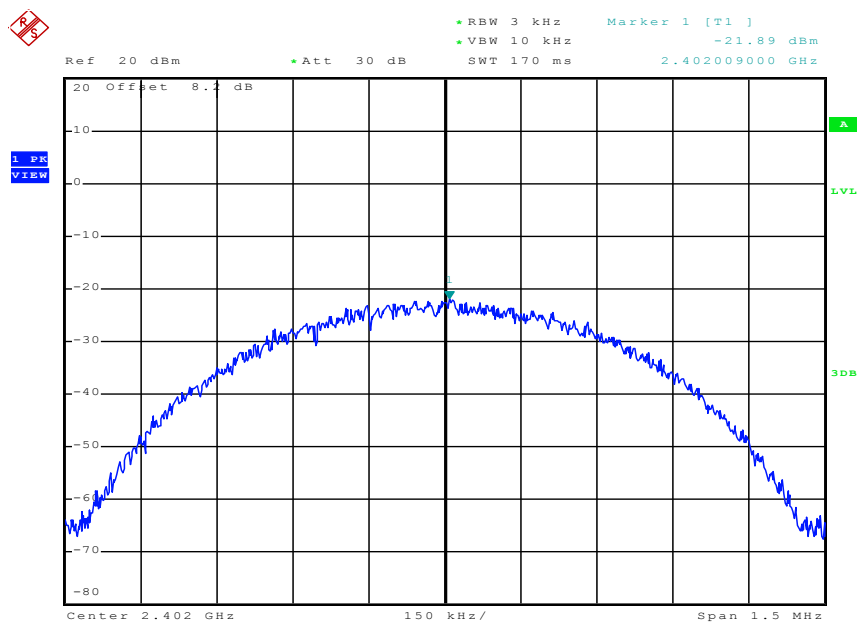
Date: 9 AUG 2019 20:04:34

B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-21.890	8	PASS
BT LE	MCH	-20.800	8	PASS
BT LE	HCH	-22.070	8	PASS

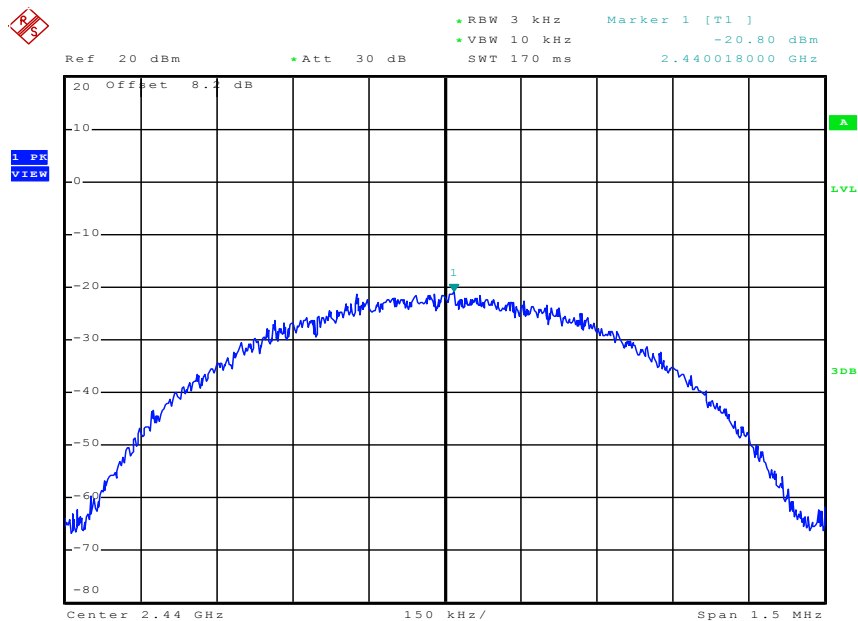
Test Graphs

LCH



Date: 9 AUG 2019 19:59:46

MCH

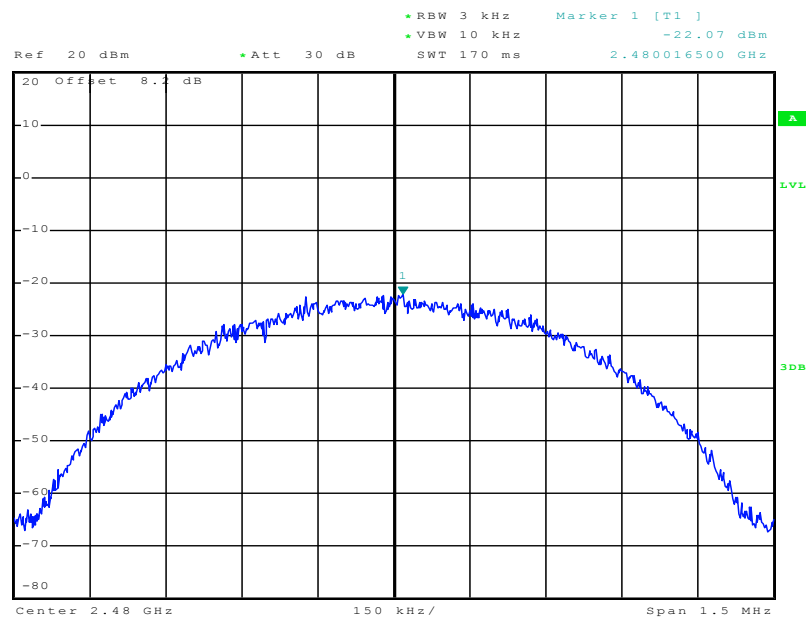


Date: 9 AUG 2019 20:03:03

HCH



1 PR
VIEW



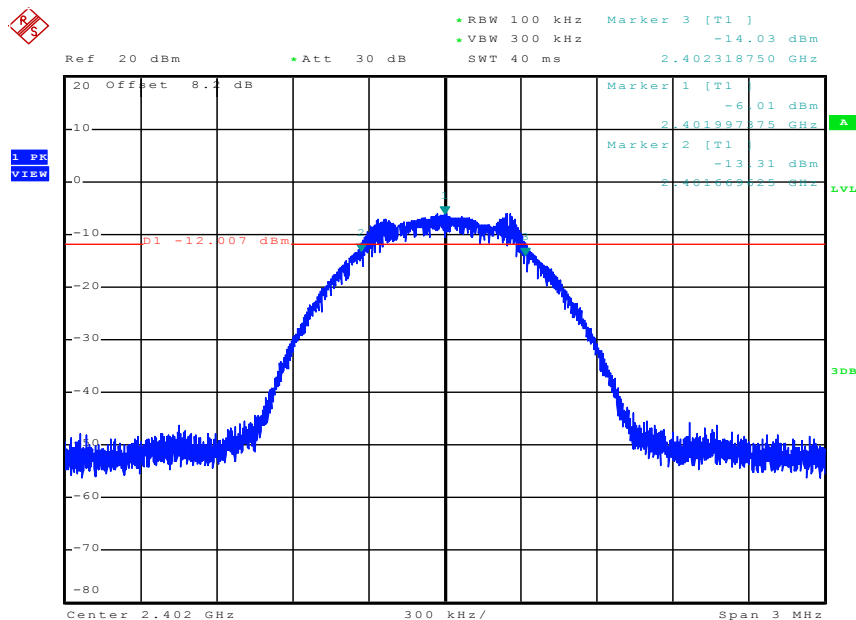
Date: 9 AUG 2019 20:04:49

B.4 6dB Bandwidth

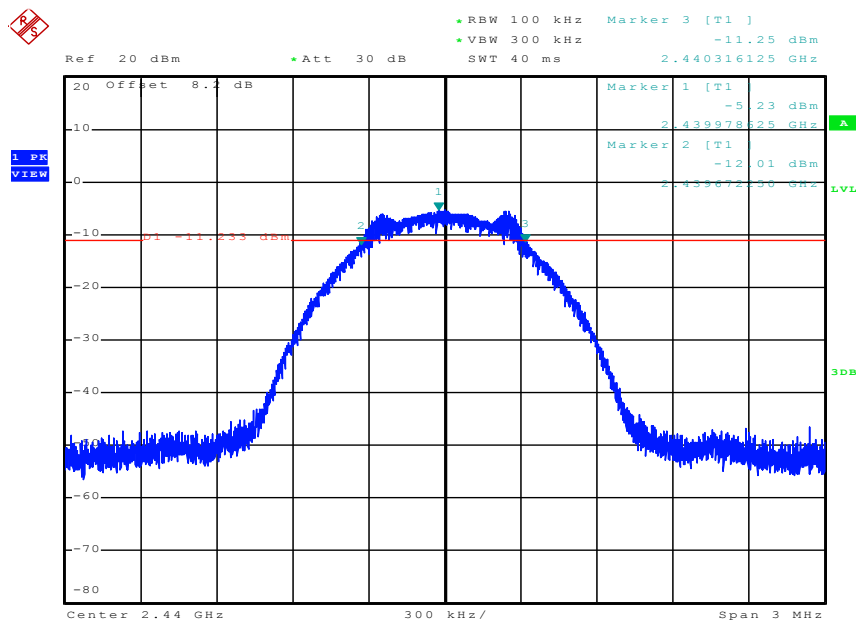
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.649	≥ 0.5	PASS
BT LE	MCH	0.644	≥ 0.5	PASS
BT LE	HCH	0.649	≥ 0.5	PASS

Test Graphs

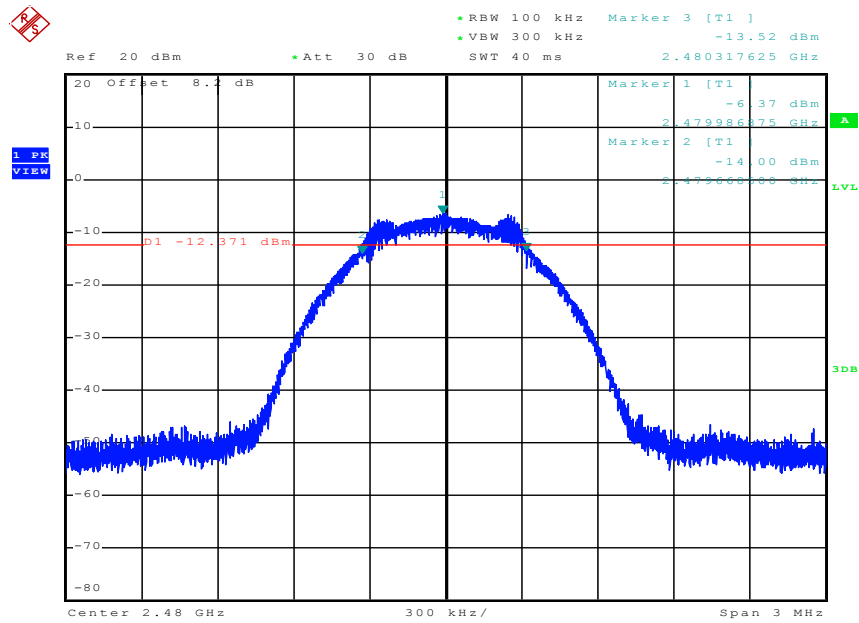
LCH



MCH



HCH



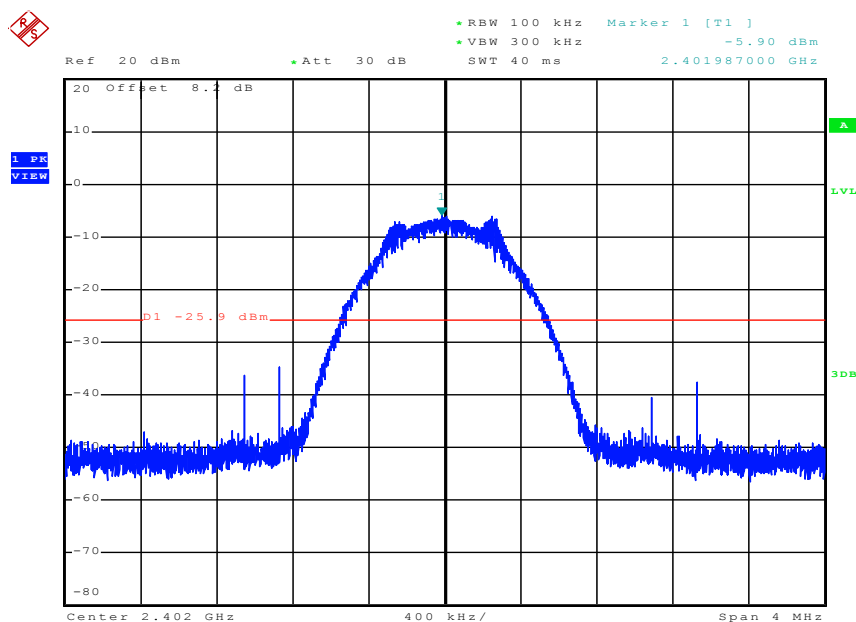
Date: 9 AUG 2019 20:04:21

B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-5.9	-32.150	-25.900	PASS
BT LE	MCH	-5.13	-31.570	-25.130	PASS
BT LE	HCH	-6.38	-32.140	-26.380	PASS

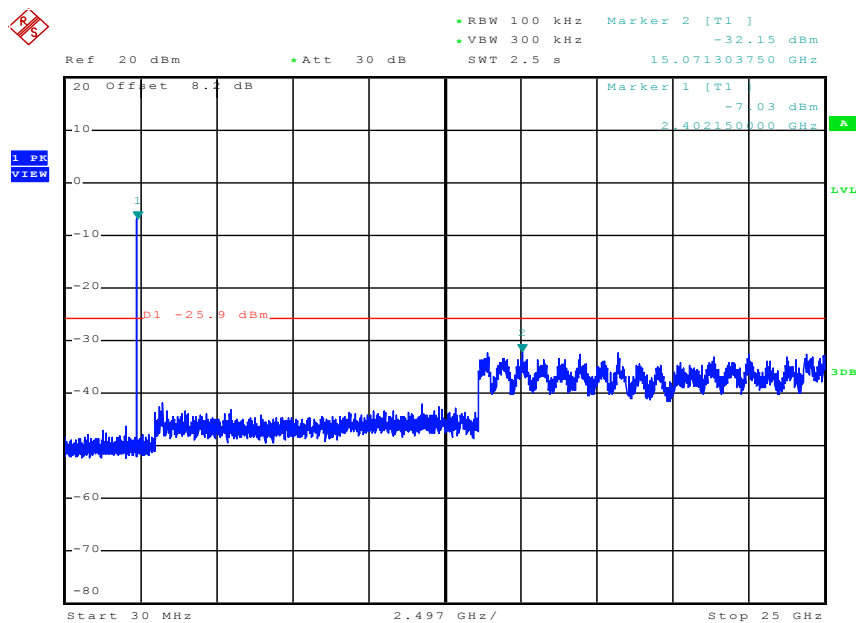
BT LE_LCH_Graphs

Pref/BT LE/LCH



Date: 9 AUG 2019 20:00:41

Puw/BT LE/LCH

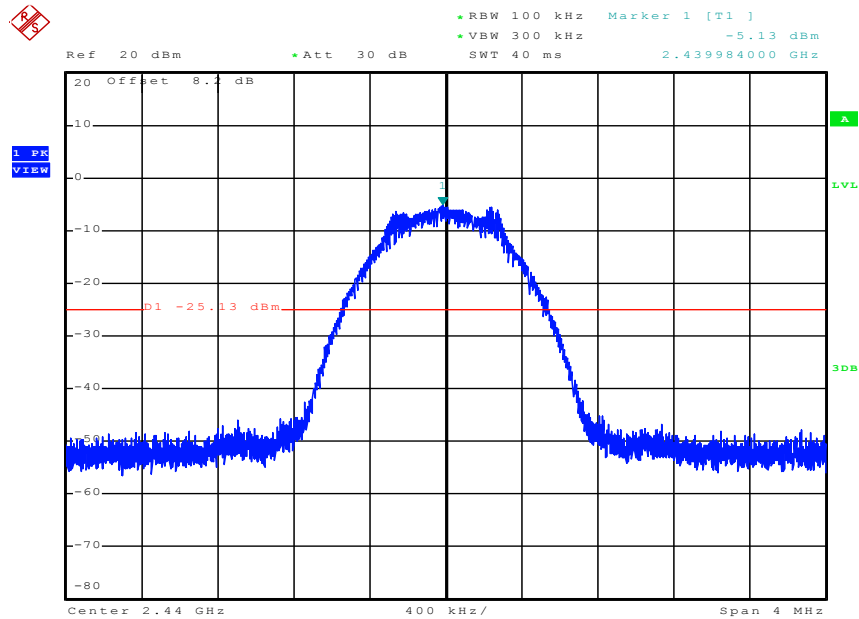


Date: 9 AUG 2019 20:01:11

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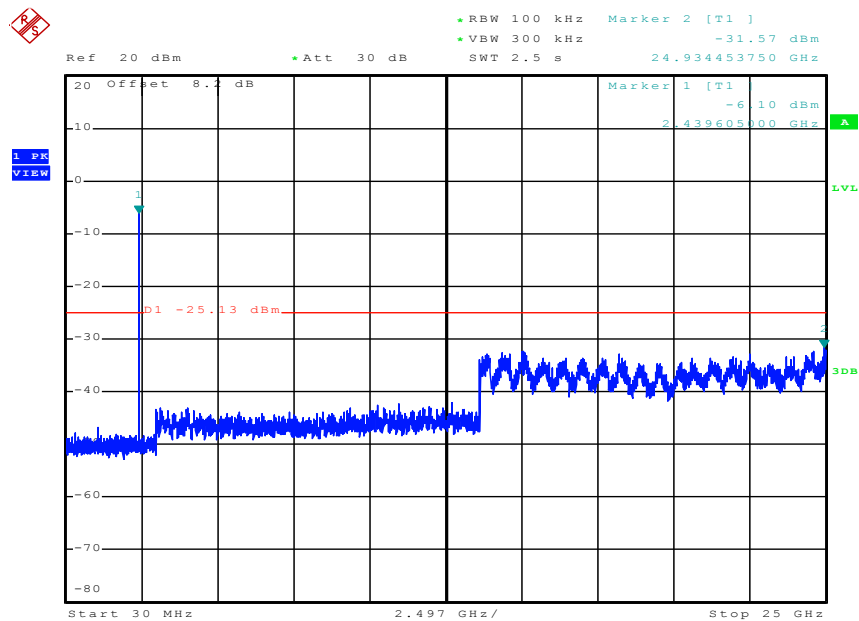
BT LE_MCH_Graphs

Pref/BT LE/MCH



Date: 9 AUG 2019 20:03:16

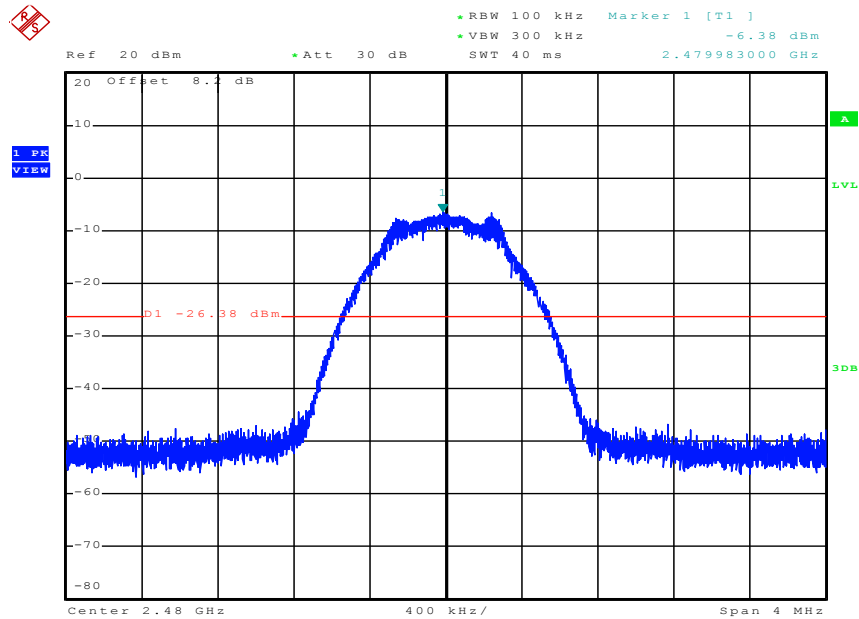
Puw/BT LE/MCH



Date: 9.AUG.2019 20:03:46

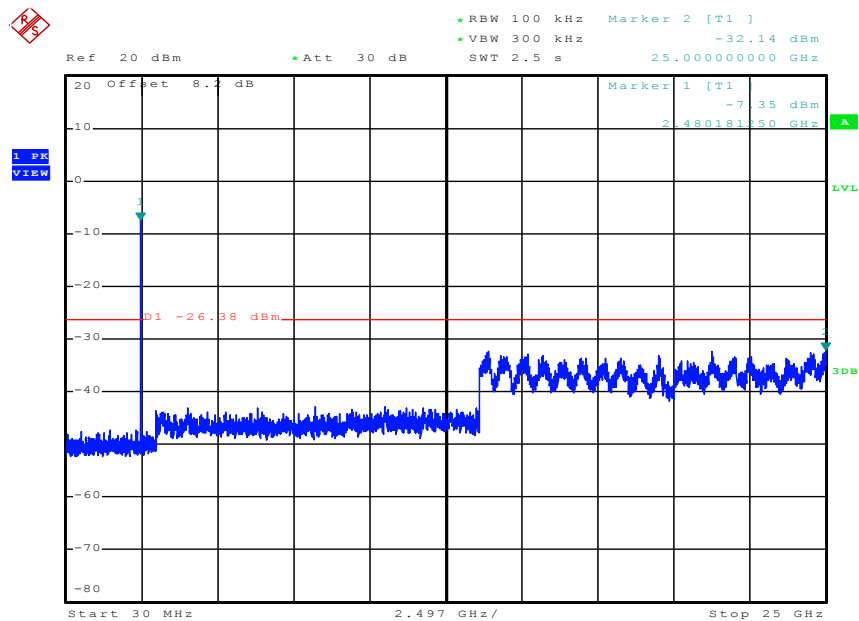
BT LE_HCH_Graphs

Pref/BT LE/HCH



Date: 9 AUG 2019 20:05:15

Puw/BT LE/HCH



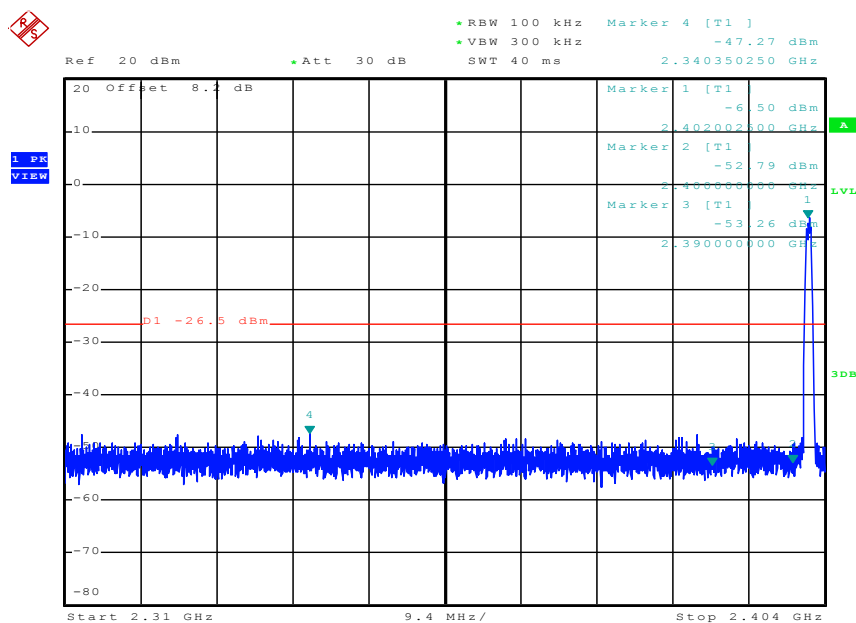
Date: 9.AUG.2019 20:05:46

B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-6.500	-47.265	-26.5	PASS
BT LE	HCH	-6.680	-46.964	-26.68	PASS

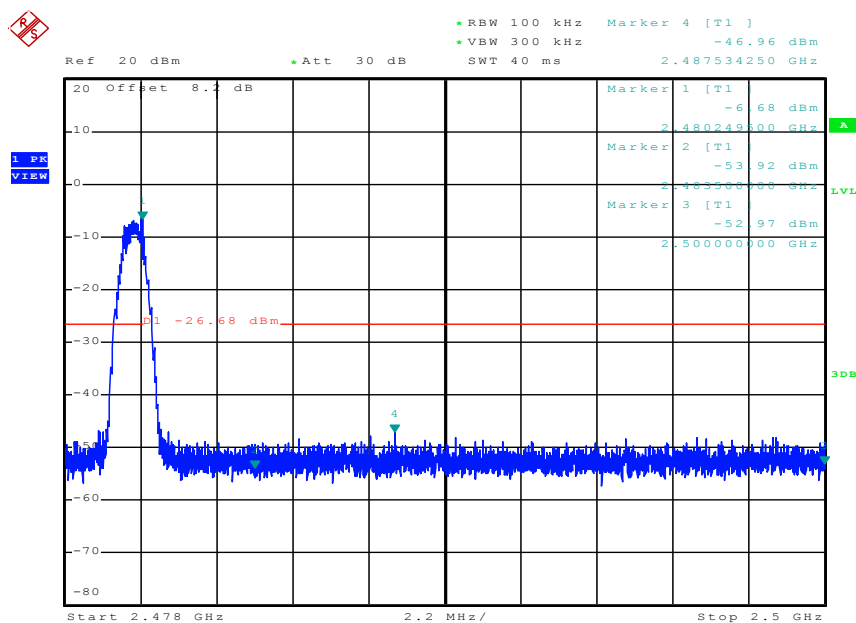
Test Graphs

LCH



Date: 9 AUG 2019 20:00:28

HCH

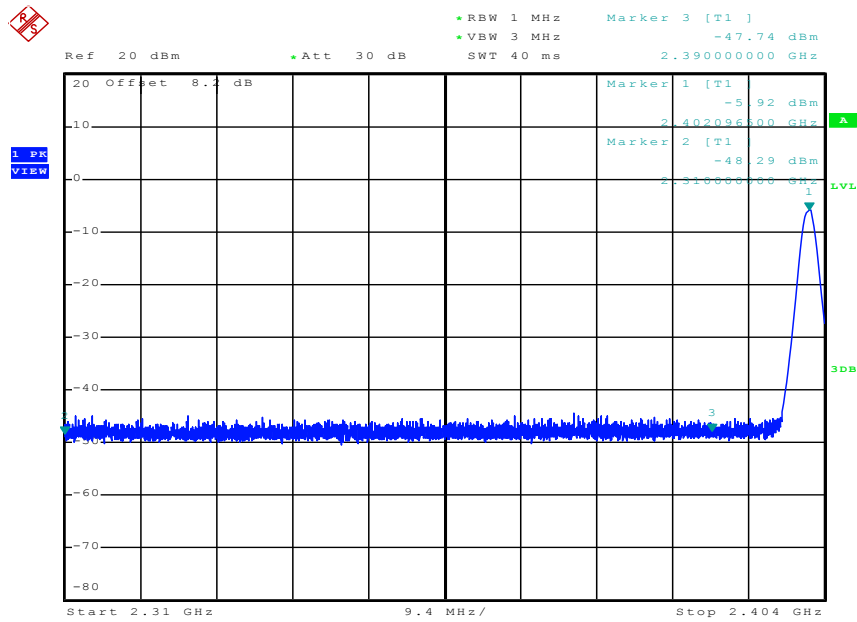


Date: 9 AUG 2019 20:05:02

B.7 Restrict-band band-edge measurements

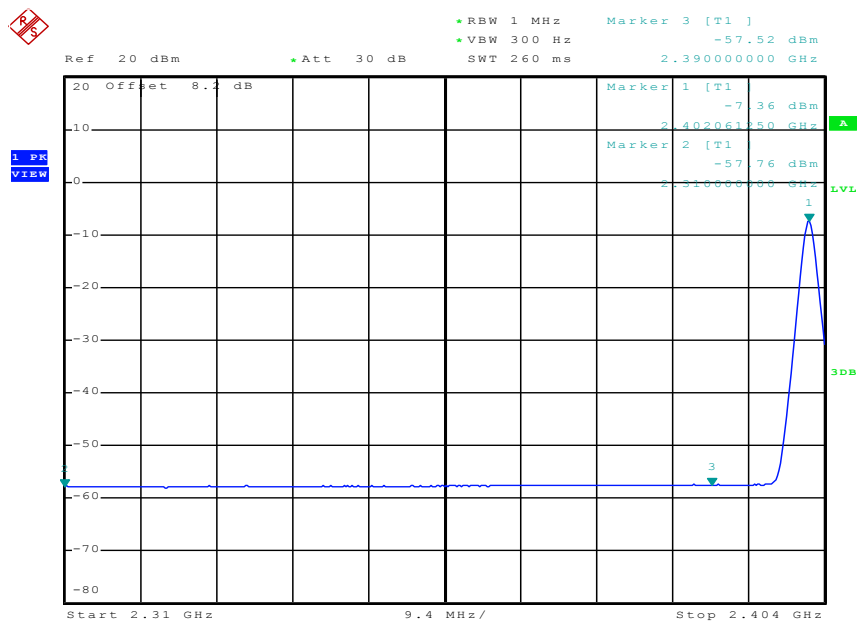
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-48.29	2.0	0	46.97	PEAK	74	PASS
		Ant1	2310.0	-57.76	2.0	0	37.50	AV	54	PASS
		Ant1	2390.0	-47.74	2.0	0	47.52	PEAK	74	PASS
		Ant1	2390.0	-57.52	2.0	0	37.74	AV	54	PASS
	2480	Ant1	2483.5	-43.06	2.0	0	52.20	PEAK	74	PASS
		Ant1	2483.5	-49.63	2.0	0	45.63	AV	54	PASS
		Ant1	2500.0	-48.64	2.0	0	46.62	PEAK	74	PASS
		Ant1	2500.0	-58.11	2.0	0	37.15	AV	54	PASS

Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



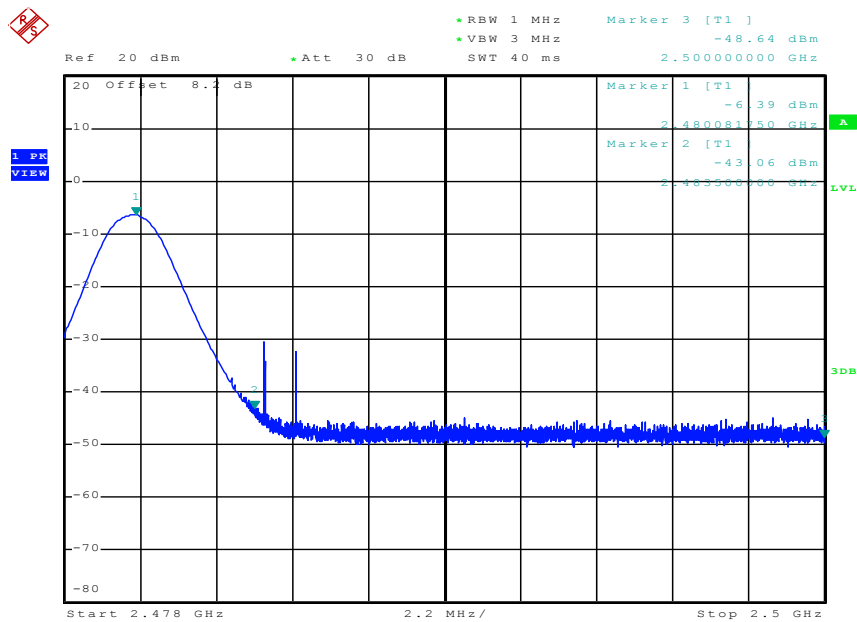
Date: 9.AUG.2019 20:01:30

Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



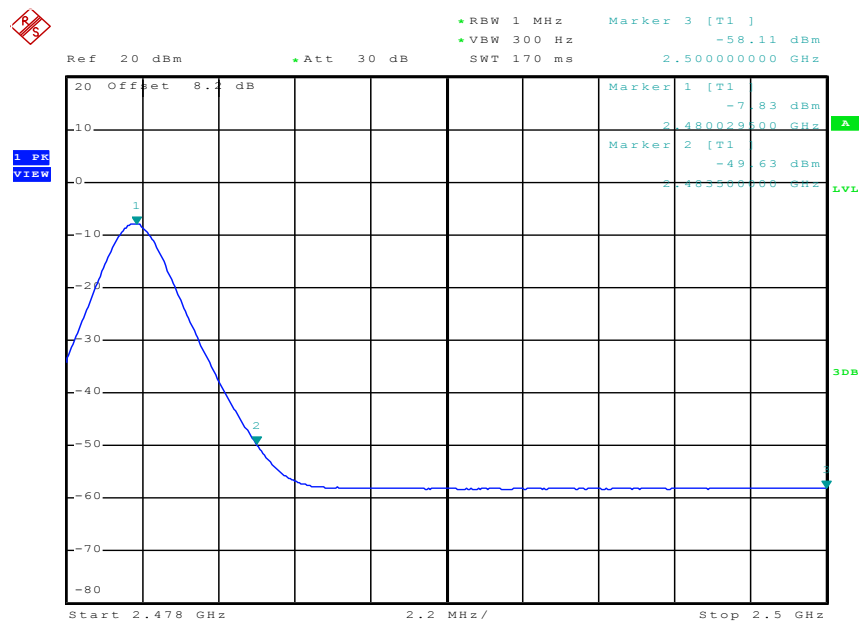
Date: 9.AUG.2019 20:01:45

Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



Date: 9.AUG.2019 20:06:05

Restrict-band band-edge measurements_BT LE_2480_Ant1_AV



Date: 9.AUG.2019 20:06:20